

CLIENT: **SUNGHYUN CHEMICALS CO., LTD**
465 Chogeu-ro Geumwang-eup Eumseong-gun
Chungbuk, Korea

Test Report No: RJ3838P-6

Date: June 10, 2015

SAMPLE ID: HICOTE ET Vermiculite SFRM SGS Korea File No; AYAA15-07869.

SAMPLING DETAIL: Test samples were submitted to the laboratory directly by the client. No special sampling conditions or sample preparation were observed by QAI.

DATE OF RECEIPT: Samples were received at QAI on March 26, 2015.

TESTING PERIOD: April 27 thru May 6, 2015.

AUTHORIZATION: QAI Test Proposal SP-2014-081803 Rev.2 dated February 19, 2015 signed by June Lee of SGS Korea Co., Ltd on February 23, 2015.

TEST REQUESTED: Deflection Test per ASTM E 759-92 (Reapproved 2005), *Standard Test Method for Effect of Deflection on Sprayed Fire-Resistive Material Applied to Structural Members.*

TEST PROCEDURE: The SFRM was applied to a 600 mm (24") wide x 3600 mm (12') long cellular steel test deck at a uniform thickness of 22 mm following the manufactures specification. The test specimen was conditioned at ambient temperature and humidity for 8 days prior to testing. The test specimen was placed on support blocks 3 meters (10 feet) apart and a vertical center load applied to the upper face of the specimen by means of a bearing block to develop a deflection of 25 mm (1 inch)

TEST RESULTS:

Density of SFRM (pcf)	Observations
20.4	The SFRM when deflected 25 mm (1 inch) remained bonded to the steel deck. No delamination or cracking of the SFRM occurred.

Tested By



David Royer
Laboratory Technician

**Signed for and on behalf of
QAI Laboratories, Inc.**



Larry Burmer
Project Leader-Physical Testing